What is claimed is:

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1. (Previously Presented) A thermoplastic vulcanizate comprising polypropylene and EPDM prepared using a catalyst system comprising:

at least one non-brominated phenolic resin;

at least one non-transition metal halide wherein the halide comprises magnesium chloride, calcium chloride, sodium chloride, potassium chloride, or combinations thereof;

at least one acid selected from the group consisting of oxalic acid,

citric acid, and combinations thereof; and

optionally, at least one hydrogen halide scavenger.

- 2. (Cancelled)
- 15 3. (Previously Presented) The thermoplastic vulcanizate of claim 1, wherein the at least one phenolic resin comprises methylol groups.
 - 4. (Cancelled)
- 5. (Cancelled)
 - 6. (Cancelled)
 - 7. (Cancelled)

8. (Cancelled)

- 9. (Previously Presented) A process for making a thermoplastic vulcanizate comprising polypropylene and EPDM, the process comprising:
 - (a) providing a catalyst system;

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- (b) providing at least one thermoplastic polymer comprising polypropylene or precursors for at least one thermoplastic polymer comprising polypropylene;
 - (c) providing at least one uncured elastomer comprising EPDM;
 - (d) mixing components of the catalyst system, simultaneously or sequentially, with the uncured elastomer; and
- (e) heating the uncured elastomer in the presence of the catalyst system to cure the uncured elastomer and to form the thermoplastic vulcanizate,

wherein the catalyst system comprises:

- (1) at least one non-brominated phenolic resin;
- (2) at least one non-transition metal halide wherein the halide comprises magnesium chloride, calcium chloride, sodium chloride, potassium chloride, or combinations thereof;
- (3) at least one acid selected from the group consisting of oxalic acid, citric acid, and combinations thereof; and optionally,
 - (4) at least one hydrogen halide scavenger.
- 20 10. (Previously Presented) The process of claim 9, wherein the amount of the phenolic resin used is about 2 to about 10 percent by weight based on total weight of the uncured elastomer.
- 11. (Previously Presented) The process of claim 9, wherein the thermoplastic elastomer is prepared using reactive extrusion.

- 12. (Previously Presented) The process of Claim 9, wherein the amount of the halide used is about 2 to about 8 percent by weight based on total weight of the uncured elastomer.
- 5 13. (Previously Presented) The process of Claim 9, wherein the amount of the acid used is about 1 to about 5 percent by weight based on total weight of the uncured elastomer.